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## **LEARNING OBJECTIVES**

- Relate at least one way respiratory comorbidity might impact the acquisition of oral feeding and the attainment of typical feeding milestones in preterm and full-term infants.
- Determine at least two appropriate strategies to improve short term and long term feeding outcomes for preterm infants affected by respiratory comorbidity.
- Differentiate one habilitative intervention to support feeding outcomes that can be initiated on an infant's first day of life.







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"Once in full gravity, immediately after birth, the NICU infant carries with them a Biotensegrity, a load throughout its entire body and its systems that will affect all systems > molecular level to the global, synactive functions." John Chappel, MA, RPT





## BESPIRATORY DEVELOPMENTAL COMMONALITIES Summary and the segmentation of the s



















## HABILITATIVE STRATEGIES

Positioning Strategies (cont'd)

- Sidelying
   Alternating R & L Important
  - Symmetrical Rib Cage Development
    Atelectasis Prevention
  - Edema Prevention
    Bedding Support Against Spine
  - Stabilization of Spinal Djult
    Head in Neutral Flexion
    Hips Flexed with Knees Tucked to Tummy
    Gives Optimal Length-Tension Ratio for
    - Diaphragm



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	For Infants U	Jp to 12 Mos. of Age	
	(Adapted from Rol	bin P. Glass & Lynn S. Wolf)	
	2	1	0
Full oral feeding prior to HFNC	None	< 3 weeks	≥ 3 weeks
Medical Complexity	Very Complex	Moderately Complex	One System Only
Airway Protection/Aspiration Risk	Extremely Fragile – High FiO2	Stable with Significant Support – Moderate FIO2	Weaning Respiratory Support Regularly – Room Air
O2 Flow Rate (based on	< 37 weeks: ≥ 4 LPM	< 37 weeks: 2.5 - 3.5 LPM	< 37 weeks: ≤ 2 LPM
corrected age)	≥ 37 weeks: ≥ 5 LPM	≥ 37 weeks: 3.5 - 4.5 LPM	≥ 37 weeks: ≤ 3 LPM
	≥ 2 mos Corrected: ≥ 6 LPM	≥ 2 mos Corrected: 4.5 – 5.5 LPM	≥ 2 mos Corrected: ≤ LPM
Scoring Ranges from 0 to 10 Score 0-2: Low Risk – C Score 3-4: Greater Risk Score 3-5: Hieb Risk – B	Baby must also meet the gener onsider oral feeding – Needs discussion & may be cand lot a good candidate for oral feedia	al criteria for feeding at that level – G lidate for limited oral feeding activity 16	i, RR, and Feeding Readiness Cues
	Continuum	of Oral Feeding	
Non-Nutritive/	Continuum	of Oral Feeding	







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### HABILITATIVE STRATEGIES

Considerations for Initiation and Advancement of Oral Feeding for Infants on

- Increased Respiratory Support O Limited Research on Oral Feeding w/HFNC or CPAP
- Anatomy and physiology of aerodigestive tract
  Current evidence base
- Each infant's competence, sensitivities, risk
  NICU team's knowledge and comfort with feeding

